

SECTION 40 27 00.23 POLYVINYL CHLORIDE (PVC – AWWA C900) PIPE AND FITTINGS		
Item	Size	Description
General/Pipe	All	Physical Characteristics: PVC bell-and-spigot pipe shall be manufactured in accordance with the latest edition of AWWA C900. The PVC bell-and-spigot pipe shall have ductile iron pipe outside dimensions. The dimension ratio (DR), the ratio of the outside pipe diameter divided by the minimum wall thickness, shall be 18, unless otherwise specified in the Piping Schedule as shown on the Drawings. The DR of the bell at any point between the ring groove and the pipe barrel shall be the same as the DR of the pipe. The wall thickness in the groove and in the bell entry section shall be at least great as that of the pipe barrel. The wall thickness at any point of PVC couplings designed for joint assembly using elastomeric seals shall be at least as great as that of the class of pipe barrel for which the couplings are designed. The PVC bell-and-spigot pipe shall be new, manufactured in accordance with these Specifications and Drawings, and shall not be supplied from inventory. Pipe Color: Manufactured with the color corresponding to the type of service as listed in the Piping Schedule as shown on the Drawings. Blue for potable or drinking water services. Green for sanitary sewer services. Purple for irrigation or reclaimed water services. White for gravity drain and storm drain services. Functional Characteristics: None. Performance Characteristics: Pressure Rating: 235 psi (DR 18), unless otherwise specified in the Piping Schedule as shown on the Drawings.

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Fittings	All	Manufacturers and Products: Mechanical Restraint: EBAA Iron; 2000PV MEGALUG, or equal. Physical Characteristics: Fittings shall be restrained mechanical joint. Functional Characteristics: None. Performance Characteristics: Mechanical Joints: ANSI/AWWA C110, ANSI/AWWA C111, and ANSI/AWWA C153.
Joints	All	Manufacturers and Products: Joint Restraint Harness: EBBA Iron; Series 1900, or equal. Physical Characteristics: Pipe joints shall be restrained bell-and-spigot with rubber ring gaskets per AWWA C900. Functional Characteristics: None. Performance Characteristics: None.
Bolting	All	Manufacturers and Products: Bolts, nuts, and accessories shall be manufactured by EBAA Iron, or equal. Physical Characteristics: Bolts for Mechanical Joints: High strength, low alloy steel (corten) “T” bolts. Functional Characteristics: None. Performance Characteristics: None.

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Gaskets	All	Physical Characteristics: None. Functional Characteristics: None. Performance Characteristics: Pipe: Rubber rings shall conform to requirements of the latest edition of ASTM D3139 or ASTM F477 as applicable. Mechanical Joints: Gaskets for mechanical joint fittings shall be rubber, conforming to ANSI A21.11, AWWA C111. A nontoxic vegetable soap lubricant shall be supplied with the pipe in sufficient quantities for installing the pipe. No lubricant shall be used that will damage the pipe or the rubber rings. Functional Characteristics: None. Performance Characteristics: None.

END OF SECTION

